Amendments to the Claims:

This listing of claims will replace all prior versions, and listings of claims in the

application. Applicant has submitted a new complete claim set showing marked up

claims with insertions indicated by underlining and deletions indicated by strikeouts

and/or double bracketing.

Listing of Claims:

1. (currently amended) A tangible computer-readable medium having stored

thereon computer-executable instructions for implementing a shell program that

exposes an application programming interface for customizing a customizable visual

user interface for a telephony device withon a screen display of a telephony device, the

customizable visual user interface comprising:

an application program selection area, including user interface controls for

selecting application programsfor providing services to a user on the telephony device;

a call slip area, including a call slip user interface for displaying telephone line

state informationshell program that exposes an application programming interface for

customizing the customizable visual user interface; and

a customizable area including at least one user interface element enabling a user

to compose e-mail via the telephony devicemessage center operatively connected to the

shell program for providing access to a user message; and

a telephony module for managing telephony functions,

wherein the application programming interface exposed by the shell program

comprises one or more methods, the application programming interface receiving input

from an application, and wherein execution of for customizing the customizable area;

and

Type of Response: Final Office Action

Application Number: 09/383,038 Attorney Docket Number: 117045.04

wherein at least one of the one or more methods of the application programming

interface is responsive to the input from the application for customizing the

customizable visual user interfacearea is for adding one or more custom panes to the

visual user interface for the telephony device, the one or more panes associated with a

parent application separate from the shell program, the parent application operable to

communicate with the shell program via the application programming interface.

2-46. (canceled)

47. (New) The computer-readable medium of claim 1 wherein the telephony module

includes an operator agent for determining a media mode of an incoming call.

48. (New) The computer-readable medium of claim 47 wherein the operator agent

further hands the incoming call to the message transport based on the media mode.

49. (New) The computer-readable medium of claim 48 wherein the operator agent is

implemented as a Protected Service Library (PSL).

50. (New) The computer-readable medium of claim 48 wherein the message

transport includes at least one of an answering machine transport, an e-mail transport,

a voice transport, a fax transport, a call slip manager, a telephony container, and a

voice-mail transport.

51. (New) The computer-readable medium of claim 48 wherein the message

transport includes a call slip manager that exposes a call slip manager application

programming interface, the call slip manager including at least one object.

Type of Response: Final Office Action Application Number: 09/383,038

Attorney Docket Number: 117045.04

52. (New) The computer-readable medium of claim 51 wherein the at least one

object has at least one function associated with the call slip manager application

programming interface, and wherein the call slip manager further exposes the call slip

manager application programming interface for accessing the at least one function of

the at least one object.

53. (New) The computer-readable medium of claim 52 wherein the other processes

are capable of communicating with the at least one object via the application

programming interface of the call slip manager.

54. (New) The computer-readable medium of claim 52 wherein the at least one

object includes at least one pane encapsulated in the at least one object.

55. (New) The computer-readable medium of claim 54 wherein the at least one pane

includes at least one of a summary status pane, a call information pane, and a control

pane.

56. (New) The computer-readable medium of claim 55 wherein the at least one pane

includes a control pane and wherein the control pane further includes at least one of a

call slip control pane and an implementer supplied call slip control pane.

57. (New) The computer-readable medium of claim 56 wherein the at least one pane

includes the control pane and the control pane includes the implementer supplied call

slip control pane and wherein the implementer supplied call slip control pane includes

an OEM call slip control.

Type of Response: Final Office Action

Application Number: 09/383,038

Attorney Docket Number: 117045.04

58. (New) The computer-readable medium of claim 52 wherein the call slip manager

application programming interface includes an ICallSlip interface and wherein the at

least one function includes one of a function for sliding the object on the display screen,

responding to telephony events, communicating changes in line state, and

communicating changes in line information.

59. (New) The computer-readable medium of claim 54 wherein the at least one pane

exposes a pane application programming interface, wherein the pane application

programming interface receives input from a user and wherein the display appearance

of the at least one pane is modified based on the input.

60. (New) The computer-readable medium of claim 59 wherein the at least one pane

receives an interface pointer associated with the corresponding at least one object.

61. (New) The computer-readable medium of claim 60 wherein the at least one

object provides a service corresponding to the interface pointer to the corresponding at

least one pane.

62. (New) The computer-readable medium of claim 1 wherein the message transport

includes at least one object having at least one function and including at least one pane

encapsulated in the at least one object on the visual user interface and wherein

customizing comprises adding one or more panes to the visual user interface for the

telephony device.

63. (New) The computer-readable medium of claim 62 wherein the one or more

panes added to the visual user interface is associated with a parent application separate

from the shell program.

Type of Response: Final Office Action

Application Number: 09/383,038

Attorney Docket Number: 117045.04

64. (New) The computer-readable medium of claim 63 wherein the parent

application is operable to communicate with the shell program via the application

programming interface.

65. (New) The computer-readable medium of claim 1 wherein the customizable

visual user interface further comprises a message transport for receiving the user

message and a message viewer for outputting the user message.

66. (New) The computer-readable medium of claim 65 wherein the message

transport executes in the background separately from the shell program.

67. (New) The computer-readable medium of claim 66 wherein the message

transport includes a telephony application.

68. (New) The computer-readable medium of claim 66 wherein the message

transport includes a voice transport for receiving an incoming call from an operator

agent.

69. (New) The computer-readable medium of claim 68 wherein the voice transport

further creates and manages an outgoing voice call.

70. (New) The computer-readable medium of claim 1 wherein the telephony module

comprises one of an operator agent, a telephone monitoring application, a transport, a

call slip manager, and a call slip program.

Type of Response: Final Office Action

Application Number: 09/383,038

Attorney Docket Number: 117045.04

71. (New) The computer-readable medium of claim 70 wherein the telephony

module includes a call slip manager, the call slip manager providing a second

application programming interface for receiving input from an implementer, new slip

components being incorporated into the module based on the input received at the

second application programming interface.

72. (New) The computer-readable medium of claim 1 wherein the shell program

provides a framework of the customizable visual user interface on the screen display of

the telephony device.

73. (New) The computer-readable medium of claim 1 wherein the shell program

provides services and receives input from an application via the application

programming interface exposed by the shell program.

74. (New) The computer-readable medium of claim 73 wherein the services provided

by the shell program includes an event scheduling service.

75. (New) The computer-readable medium of claim 1 wherein the shell program

incorporates a custom application program via the application programming interface

exposed by the shell program.

76. (New) The computer-readable medium of claim 75 wherein the custom

application program invokes a platform service of the shell program through the

application programming interface exposed by the shell program.

77. (New) The computer-readable medium of claim 76 wherein the custom

application program includes a third party application.

Type of Response: Final Office Action

Application Number: 09/383,038

Attorney Docket Number: 117045.04

78. (New) A method of creating a customizable visual user interface for a telephony

device with a screen display, the method comprising:

providing, on one or more tangible computer-readable media, software

comprising computer-executable instructions for customizing the customizable visual

user interface, the customizable visual user interface comprising a branding area for

displaying a brand graphic, wherein the branding area is operable to allow a user to

connect to an internet location via the telephony device, and wherein the internet

location is associated with the brand graphic;

wherein the software for customizing the customizable visual user interface

comprises at least one application programming interface comprising one or more

methods for adding one or more custom panes corresponding to a parent application to

the customizable visual user interface, the at least one application programming

interface exposed by a shell program;

wherein the software for customizing the customizable visual user interface is

provided by a first software provider to a second software provider; and

wherein customization of the customizable visual user interface is performed by

the second software provider using the application programming interface.

Type of Response: Final Office Action

Application Number: 09/383,038 Attorney Docket Number: 117045.04

79. (currently amended) A method for developing software to run on a telephony

device, the method comprising:

receiving, on one or more tangible computer-readable media, a software

platform comprising computer-executable instructions for displaying a user interface on

a display screen of the telephony device, wherein the software platform includes a shell

program that exposes a programmatic programming interface operable to provide

functionality for customizing the user interface;

receiving default user interface program modules that each display default user

interface elements in the user interface: and

creating a custom user interface program module, wherein the custom user

interface program module uses the programmatic programming interface operable to

provide functionality for customizing the user interface and displays a custom user

interface element in the user interface, the custom user interface element associated

with a parent application not included in the received software platform or the received

default user interface program modules.

80. (previously presented) The method of claim 79 further including:

enumerating the custom program module in a data structure of an operating

system to enable the software platform to identify the custom user interface element

and add the custom user interface element to the user interface.

81. (previously presented) The method of claim 79 including:

receiving a set of application programs associated with the default user interface

elements; and

for a selected default user interface element, selecting an associated application

program from the set to be loaded onto and executed in the telephony device;

Type of Response: Final Office Action

Application Number: 09/383,038

Attorney Docket Number: 117045.04

Filing Date: August 25, 1999

wherein the associated application program uses the selected default user

interface element as a user interface.

82. (previously presented) The method of claim 81 wherein the default program

modules include a message program module for displaying a user interface for a

message center application program in a message pane;

wherein the message center application program communicates state changes to

the message program module, and wherein the message program module updates the

message pane to reflect the state changes.

83. (previously presented) The method of claim 82 wherein the state changes include

arrival of a fax, email, or answering message, and the message program module

updates the message pane by displaying an indicator of the arrival of the message.

84. (currently amended) A tangible computer readable medium having programming

modules that control display of a user interface of a screen phone, the programming

modules including:

a shell program for controlling display of a user interface on a display screen of

the screen phone, wherein the shell program exposes a programmatic programming

interface operable to provide functionality for customizing the user interface;

default pane programs that each control display of default panes in the user

interface, at least one of the default pane programs providing a user interface for a

parent application program;

wherein the parent application program communicates state changes to a

corresponding default pane program, and the corresponding default pane program

updates the default pane to reflect the state changes; and

Type of Response: Final Office Action

Application Number: 09/383,038

Attorney Docket Number: 117045.04

wherein the programmatic programming interface provides one or more

methods for creating one or more custom panes for display in the user interface, the

custom panes associated with one or more parent applications outside the shell

program.

85. (currently amended) A method of developing software for a customizable visual

user interface for a telephony device with a screen display, wherein the customizable

visual user interface comprises:

a message area for displaying a visual indicator of fax, e-mail, or answering

machine messages, the method comprising:

providing, on one or more tangible computer-readable media, software

comprising computer-executable instructions for implementing default elements of the

customizable visual user interface and customizing the customizable visual user

interface to a custom software implementer;

wherein the software for implementing default elements of the customizable

visual user interface and customizing the customizable visual user interface comprises

one or more application programming interfaces comprising one or more methods for

customizing the visual user interface, wherein at least one of the one or more

application programming interfaces is exposed by a shell program and comprises a

method for adding a custom pane corresponding to a parent application to the

customizable visual user interface.

86. (previously presented) The method of claim 85 wherein the customizable visual

user interface further comprises a branding area for displaying a brand graphic.

87. (currently amended) A computer-implemented method for providing run-time

customization of a user interface of a telephony device, the method comprising:

Type of Response: Final Office Action

Application Number: 09/383,038

Attorney Docket Number: 117045.04

at run-time of the user interface, accepting an indication that a new user

interface element is to be added to the user interface of the telephony device; and

responsive to the accepting, adding the new user interface element to the user

interface of the telephony device;

wherein the accepting facilitates customization of the user interface of the

telephony device at run-time of the user interface; and

wherein the new user interface element is associated with a parent application

separate from a shell program implementing default elements of the user interface.

88. (previously presented) The method of claim 87 wherein the accepting is

accomplished via a programmatic programming interface, the method further

comprising:

via the programmatic programming interface, accepting an indication that the

new user interface element is to be registered for receiving messages related to the new

user interface element.

Type of Response: Final Office Action
Application Number: 09/383,038

Attorney Docket Number: 117045.04

89. (currently amended) A telephony device comprising:

a screen display;

a computer-readable medium; and

a user input device;

wherein the computer-readable medium has stored thereon a software platform

comprising:

computer executable instructions for displaying a graphical user interface for the

telephony device on the screen display; and

an application programming interface operable to enable customization of the

graphical user interface during run-time of the graphical user interface;

wherein the customization comprises adding one or more new user interface

elements associated with a parent application separate from the software platform.

90. (currently amended) A method of communicating between a pane program and a

shell program in a telephony device, wherein the shell program is operable to display a

user interface for the telephony device, the method comprising:

providing a pane identifier in a function call, wherein the identifier is associated

with a new pane to be added to the user interface, the new pane associated with the

pane program, wherein the pane program is separate from but in communication with

the shell program; and

in response to the providing, creating an instance of the new pane in the user

interface;

wherein the function call calls a function in a programming interface exposed by

the shell program, and wherein the programming interface facilitates customization of

the user interface.

Type of Response: Final Office Action

Application Number: 09/383,038 Attorney Docket Number: 117045.04

91. (currently amended) A tangible computer-readable medium having stored thereon

software for implementing a customizable visual user interface for a telephony device

with a screen display, the visual user interface comprising:

an application program selection area, including user interface controls for

selecting application programs;

a call slip area, including a call slip user interface for displaying telephone line

state information; and

a customizable area including at least one user interface element enabling a user

to activate an internet browser application program to access an online directory

service;

wherein the software for implementing a customizable visual user interface

comprises at least one application programming interface comprising one or more

methods for customizing the customizable area, the at least one application

programming interface provided by a shell program implementing default elements of

the visual user interface; and

wherein at least one of the one or more methods for customizing the

customizable area is for adding one or more custom panes to the visual user interface

for the telephony device, the one or more panes associated with a parent application

separate from a the shell program implementing default elements of the visual user

interface.

Type of Response: Final Office Action
Application Number: 09/383,038

Attorney Docket Number: 117045.04